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## (WO/2005/054471) NOVEL CENTROMERIC PROTEIN SHUGOSHIN

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Applicants: JAPAN SCIENCE AND TECHNOLOGY AGENCY [JP/JP]; 1-8, Honcho 4-chome, Kawaguchi-shi, Saitama, 3320012 (JP) (All Except US).  
 WATANABE, Yoshinori [JP/JP]; 1-18-1-308, Shinkashiwa, Kashiwa-shi Chiba, 2770084 (JP) (US Only).

Inventor: WATANABE, Yoshinori [JP/JP]; 1-18-1-308, Shinkashiwa, Kashiwa-shi Chiba, 2770084 (JP).

Agent: HIROTA, Masanori; 3F Wakabayashi Bldg., 8-5, Akasaka 2-chome, Minato-ku Tokyo, 1070052 (JP).

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**Abstract:** It is intended to provide a novel meiosis-specific centromeric protein Sgo1 (shugoshin) originating in a fission yeast *Schizosaccharomyces pombe* as a factor ensuring the retention of unidirection and adhesion in sister centromeres in the first meiotic division synergistically with cohesin, its homolog or paralog having an activity of regulating chromosomal distribution, and DNA encoding the same. To clarify a protein protecting Rec8 in the latter stage of division, screening is made of a gene which regulates mitotic division development and inhibits the separation of sister chromatids in the latter stage of division, when expressed together with Rec8, from among fission yeast genes. As the result of this approach, a meiosis-specific protein Sgo1 which protects (*shugo*) centromeric Rec8 from degradation in the latter stage of first division is found out. Moreover, an Sgo1 homolog of a budding yeast and a mitotic division paralog Sgo2 of a fission yeast are found out.

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